

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-11 (Canceled).

12. (Currently Amended): A ceramic heater comprising a sintered nitride ceramic plate or a sintered carbide ceramic plate and a heating element formed inside of the ceramic plate, wherein:

a bottomed hole is made, being directed from the opposite side to a heating surface for heating an object to be heated, toward the heating surface;

the bottom of said bottomed hole is formed relatively nearer to the heating surface than the heating element;

the distance between the bottom of said bottomed hole and said heating surface is from 0.1 mm to 1/2 of the thickness of the ceramic plate;

a temperature-measuring element comprising a sheath type thermocouple is set up in said bottomed hole; and

said temperature-measuring element is pressed on the bottom portion of said bottomed hole.

13. (Canceled)

14. (Previously Presented): The ceramic heater according to claim 12, wherein said temperature-measuring element is pressed on the bottom portion of said bottomed hole by means of an elastic body or a screw.

15. (Previously Presented): The ceramic heater according to claim 12,

wherein said heating element is divided into at least two circuits.

16. (Previously Presented) The ceramic heater according to claim 12,
wherein said heating element has a section in a flat shape.

17. (New) The ceramic heater according to claim 12,
wherein the size of the connecting portion of said thermocouple is equal, to or larger
than the diameter of its strand wire and is 0.5 mm or less.

18. (New) The ceramic heater according to claim 12,
wherein said bottomed holes are formed by drilling or sandblast treatment.

19. (New) The ceramic heater according to claim 12,
wherein said heating element comprises tungsten molybdenum, a carbide of tungsten,
or a carbide of molybdenum.

20. (New) A ceramic heater comprising a sintered nitride ceramic plate or a sintered
carbide ceramic plate and a heating element formed inside of the ceramic plate,
wherein:

a bottomed hole is made, being directed from the opposite side to a heating surface for
heating an object to be heated, toward the heating surface; and

a temperature-measuring element comprising a sheath type thermocouple is pressed
along a transverse direction of a bottom portion of said bottomed hole.